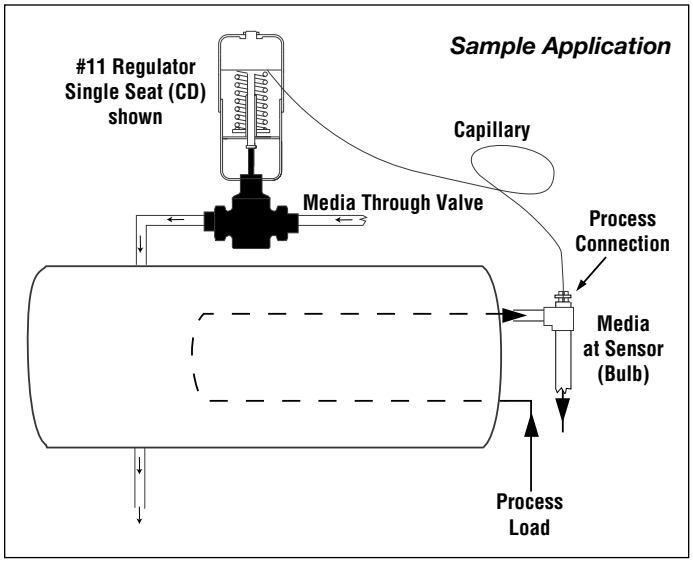
POWERS
A WATTS INDUSTRIES CO.

No. 11 Regulator Application Data Sheet

Form ADS#11FW

Selecting the correct model regulator for the specific application is extremely important to maintaining a smooth-running process. To get the regulator that will best meet your needs, please be sure to answer every question noted as "Required" on this Application Data Sheet.



1. Basic Application[R]
- ☐ Heating
- ☐ Cooling
- ☐ Mixing

2. Capacity[E/O]
Cv Rating _____
GPM or #/hr. _____

2a. Pipe Size _____

2b. Trim Material
- ☐ Bronze
- ☐ Stainless

2c. Packing Material
- ☐ EP V-Ring
- ☐ Teflon V-Ring

3. Process Load[E/O]
- Flow (GPM) of material to be heated, cooled, or mixed _____
- Temperature increase or decrease of material _____

4. Media Through Valve
- ☐ **Steam**
  Inlet pressure[R] _____
  Pressure Drop (ΔP)[N] _____
- ☐ **Water**
  Inlet pressure[R] _____
  Pressure Drop (ΔP)[N] _____
  Temperature[R] _____
- ☐ **Other**
  Material Flowing Through Valve _____
  Inlet Pressure[R] _____
  Pressure Drop (ΔP)[N] _____
  Temperature[R] _____

5. Media At Sensor (Bulb)[R]
- **Type**
  - ☐ Water
  - ☐ Chemical (Specify) _____
- **Temperature**
  - ☐ Desired Control Point _____
  - ☐ Maximum Temperature Exposure _____
  - ☐ Optional Temperature Indicator (Gauge)

6. Bulb and Capillary Characteristics[R]
- **Material**
  - ☐ Copper
  - ☐ 316 Stainless

7. Process Connection, Optional Bulb Well, Capillary Length
- **Process Connection**
  - ☐ Standard Fixed Union with NPT Connection (Style D)
  - ☐ Special Adjustable Union with NPT Connection (Style JD)
  - ☐ Special Vertical Fixed Union with NPT Connection (Style V)
  - ☐ Plain Bulb [No fittings] (Style J)
- **Optional Bulb Well**
  - ☐ Copper
  - ☐ Stainless
- **Capillary Length**
  - ☐ 8′ (Standard)
  - ☐ 15′ (Standard)
  - ☐ 30′ (Optional)

8. Part # _____

NOTES

[R] **Required Information**

[E/O] **Either/Or Information**
If the required flow rate through the valve (Capacity, Item #2) is not known, it can be calculated from the Process Load Information (Item #3).

[N] **Nice To Have Information**
Pressure drops across the valve can be assumed if they are not specified by the customer.

USA Office Phone: 800.669.5430
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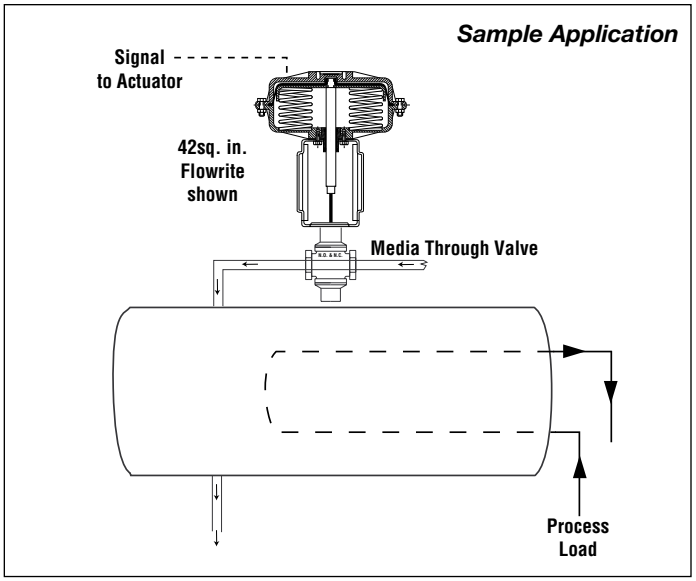
Flowrite Control Valve Application Data Sheet

Form ADS#11FW

Selecting the correct valve size and type is extremely important in order to maintain accurate control and long valve life. To get the valve that will best meet your needs, please be sure to answer every question noted as "Required" on this Application Data Sheet.



1. Valve Style [R]
- ☐ Normally Open (air to close)
- ☐ Normally Closed (air to open)
- ☐ Mixing
- ☐ Double Acting
- ☐ _____

2. Valve Body Material [R]
- ☐ Bronze ☐ Steel
- ☐ Iron
- ☐ Stainless

Process Connection
- ☐ Screwed
- ☐ 150# Flanged
- ☐ 300# Flanged
- ☐ _____

3. Capacity [E/O]
Cv Rating _____
GPM or #/hr. _____

4. Process Load [E/O]
- Flow (GPM) of material to be heated, cooled, or mixed _____
- Temperature increase or decrease of material _____

5. Flow Characteristic and Trim Material [N]
- ☐ Linear
- ☐ Equal %
- ☐ Bronze
- ☐ 316 SS
- ☐ _____

6. Close Off Requirements [R]
- ☐ Class 2 (leakage to be 0.5% of max. flow or less) [most double seat]
- ☐ Class 3 (leakage to be 0.1% of max. flow or less)
- ☐ Class 4 (leakage to be .01% of max. flow or less) [most single seat]

7. Media Through Valve [E/O]
- ☐ **Steam**
  - Inlet Pressure [R] _____
  - Flowing Pressure Drop (ΔP) [N] _____
- ☐ **Water**
  - Inlet Pressure [R] _____
  - Flowing Pressure Drop (ΔP) [N] _____
  - Temperature [R] _____
- ☐ **Other**
  - Material Flowing Through Valve _____
  - Inlet Pressure [R] _____
  - Flowing Pressure Drop (ΔP) [N] _____
  - Temperature [R] _____

7a. Close off differential _____

8. Packing Requirements [N]
- ☐ Service under 300°F
- ☐ Service under 250°F–400°F
- ☐ Service 250°–500°F
- ☐ EP V-Ring
- ☐ Teflon V-Ring
- ☐ Graphite
- ☐ _____

9. Actuator Requirements [R]
- **Signal to Actuator**
  - ☐ 3–15 psi from I/P
  - ☐ 1–17 psi from I/P
  - ☐ _____PSI from Positioning Relay
  - ☐ _____PSI from Pneumatic Controller
- **Actuator Span**
  - ☐ Full Range 3-15 Nominal
  - ☐ Split Range 3–8 psi
  - ☐ Split Range 10–15 psi
  - ☐ Extended Range 0-50 Maximum PSI

10. Accessories [R]
- ☐ Positioning Relay _____
- ☐ I/P Transducer _____
- ☐ I/P and Positioner Combination
- ☐ Gauge Set

11. Part # _____

NOTES

[R] **Required Information**

[E/O] **Either/Or Information**
If the required flow rate through the valve (Capacity, Item #3) is not known, it can be calculated from the Process Load Information (Item #4).

[N] **Nice To Have Information**
Pressure drops across the valve can be assumed if they are not specified by the customer.